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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/737,064	12/16/2003	Raymond Hornback JR.	LOT9-2003-0076-US1 (7321-	5214
46321 7590 04/30/2007 CAREY, RODRIGUEZ, GREENBERG & PAUL, LLP STEVEN M. GREENBERG 950 PENINSULA CORPORATE CIRCLE SUITE 3020 BOCA RATON, FL 33487			EXAMINER PERUNGAVOOR, SATHYANARAYA V	
			ART UNIT 2624	PAPER NUMBER
			MAIL DATE 04/30/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/737,064

Applicant(s)

HORNBACK ET AL.

Examiner

Sath V. Perungavoor

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

[1] Claims 1-4 and 8-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Roylanceⁱ.

Regarding claim 1, Roylance meets the claim limitations, as follows:

A componentized application sharing system (*i.e.* 100) configured for use with a shared application host, the system comprising: a plurality of different pluggable image processing modules (*i.e.* 206 and 306), each of said different pluggable image processing modules (*i.e.* 206 and 306) conforming to a corresponding single interface (*i.e.* network) expected by the application sharing module (*i.e.* 108) [figs. 1-3; paras. 0020 and 0029]; and, a communicative coupling (*i.e.* network) between the application sharing module (*i.e.* 108) and a selected one of said different image processing modules (*i.e.* 206 and 306) [figs. 1-3; para. 0020].

Regarding claim 2, Roylance meets the claim limitations, as follows:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image compression modules *[para. 0029]*.

Regarding claim 3, Roylance meets the claim limitations, as follows:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image capturing modules *[para. 0021: scanner and camera]*.

Regarding claim 4, Roylance meets the claim limitations, as follows:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image transmission modules *[paras. 0018 and 0021: printer and scanner with fax]*.

Regarding claim 9, Roylance meets the claim limitations, as follows:

The system of claim 8, wherein said application sharing host comprises selection logic programmed to select an application sharing strategy ranging from high image fidelity to high speed image transmission *[para. 0029: Any selecting method would fall within this range]*.

Regarding claims 8 and 10-12, all claimed limitations are set forth and rejected as per discussion for claims 1-4.

[2] Claims 1, 2 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated De Queirozⁱⁱ

Regarding claim 1, De Queiroz meets the claim limitations, as follows:

A componentized application sharing system [fig. 2] configured for use with a shared application host, the system comprising: a plurality of different pluggable image processing modules (*i.e.* M1-M4), each of said different pluggable image processing modules (*i.e.* M1-M4) conforming to a corresponding single interface (*i.e.* 122) expected by the application sharing module [fig. 2; para. 0043]; and, a communicative coupling (*i.e.* system bus) between the application sharing module and a selected one of said different image processing modules [fig. 1 and 2].

Regarding claim 2, De Queiroz meets the claim limitations, as follows:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image compression modules (*i.e.* M1-M4) [fig. 2; para. 0042].

Regarding claim 7, De Queiroz meets the claim limitations, as follows:

The system of claim 2, wherein said different image compression modules (*i.e.* M1-M4) comprise image compression logic (*i.e.* 104) programmed to produce one of a smallest possible image size to provide a highest possible rate of transmission for a compressed image (*i.e.* M4), a lowest level of image resolution loss to provide a highest level of image fidelity for a compressed image (*i.e.* M1), and a moderate image size (*i.e.* M2 or M3) to provide an intermediate rate of transmission and an intermediate level of image fidelity for a compressed image [paras. 0042 and 0043].

Regarding claims 8-10, all claimed limitations are set forth and rejected as per discussion for claims 1, 2 and 7.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

[3] Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over De Queiroz in view of Shen et al.ⁱⁱⁱ ("Shen").

Regarding claim 6, De Queiroz meets the claim limitations as disclosed in claim 1.

De Queiroz does not explicitly disclose the following claim limitations:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image region selection modules configured to process selected image sub-partitions of shared application imagery, each of said different pluggable image region selection modules selecting and ordering processing of said selected image sub-partitions differently.

However, in the same field of endeavor Shen discloses the deficient claim limitations, as follows:

A plurality of different pluggable image region selection (*i.e.* 6, 7 and 8) modules configured to process selected image sub-partitions (*i.e.* sub-bands) of shared

application imagery, each of said different pluggable image region selection modules (*i.e.* 6, 7 and 8) selecting and ordering processing (*i.e.* scan path) of said selected image sub-partitions differently (*i.e.* horizontal, vertical or zig-zag) [figs. 5 and 7].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of De Queiroz with Shen to use different scanning directions based on sub-bands, the motivation being to use less bits [col. 2, ll. 29-40].

Regarding claim 14, all claimed limitations are set forth and rejected as per discussion for claim 6.

[4] Claims 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable Roylance over in view of Shen.

Regarding claim 6, Roylance meets the claim limitations as disclosed in claim 1.

Roylance does not explicitly disclose the following claim limitations:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image region selection modules configured to process selected image sub-partitions of shared application imagery, each of said different pluggable image region selection modules selecting and ordering processing of said selected image sub-partitions differently.

However, in the same field of endeavor Shen discloses the deficient claim limitations, as follows:

A plurality of different pluggable image region selection (*i.e.* 6, 7 and 8) modules configured to process selected image sub-partitions (*i.e.* *sub-bands*) of shared application imagery, each of said different pluggable image region selection modules (*i.e.* 6, 7 and 8) selecting and ordering processing (*i.e.* *scan path*) of said selected image sub-partitions differently (*i.e.* *horizontal, vertical or zig-zag*) [figs. 5 and 7].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of Roylance with Shen to use different scanning directions based on sub-bands, the motivation being to use less bits [col. 2, ll. 29-40].

Regarding claim 14, all claimed limitations are set forth and rejected as per discussion for claim 6.

[5] Claims 5 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable Roylance over in view of Jang et al.^{iv} ("Jang").

Regarding claim 5, Roylance meets the claim limitations as disclosed in claim 1.

Roylance does not explicitly disclose the following claim limitations:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image change detection modules configured to trigger image updates responsive to changes in portions of a shared application image.

However, in the same field of endeavor Jang discloses the deficient claim limitations, as follows:

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A plurality of different pluggable image change detection (*i.e. scene change*) modules (*i.e. 1.1, 1.2 and 1.3*) configured to trigger image updates responsive to changes in portions of a shared application image [*page 841, col. 1, paras. 2 and 3; Sections 1.1, 1.2 and 1.3*].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of Roylance with Jang to select among the different scene change algorithms, the motivation being that each algorithm as a trade off between speed and accuracy [*page 842, col. 1, paras. 1 and 2; page 842, col. 2, para. 2*].

Regarding claim 13, all claimed limitations are set forth and rejected as per discussion for claim 5.

[6] Claims 5 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable De Queiroz over in view of Jang.

Regarding claim 5, De Queiroz meets the claim limitations as disclosed in claim 1.

De Queiroz does not explicitly disclose the following claim limitations:

The system of claim 1, wherein said pluggable image processing modules comprises a plurality of different pluggable image change detection modules configured to trigger image updates responsive to changes in portions of a shared application image.

However, in the same field of endeavor Jang discloses the deficient claim limitations, as follows:

A plurality of different pluggable image change detection (*i.e. scene change*) modules (*i.e. 1.1, 1.2 and 1.3*) configured to trigger image updates responsive to changes in portions of a shared application image [*page 841, col. 1, paras. 2 and 3; Sections 1.1, 1.2 and 1.3*].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of De Queiroz with Jang to select among the different scene change algorithms, the motivation being that each algorithm as a trade off between speed and accuracy [*page 842, col. 1, paras. 1 and 2; page 842, col. 2, para. 2*].

Regarding claim 13, all claimed limitations are set forth and rejected as per discussion for claim 5.

Contact Information

[7] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Sath V. Perungavoor whose telephone number is (571) 272-7455. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Matthew C. Bella whose telephone number is (571) 272-7778, can be reached on Monday to Friday from 9:00am to 5:00pm. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dated: April 24, 2007

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SUPERVISORY PATENT EXAMINER
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ⁱ US 2003/0007703 A1

ⁱⁱ US 2001/0041017 A1

ⁱⁱⁱ US 6,055,017

^{iv} NPL document titled, "Performance Evaluation of Scene Change Detection Algorithms"